

ABSTRACT

A method and apparatus for communication for a supervisory control and data acquisition (SCADA) system, the SCADA system comprising: an enterprise server; at least one intelligent electronic device (RTU), wherein the RTU measures a physical process and stores digital data representative of the measurement in a memory area for transmission; a configuration tool (AES) linking the SCADA server with the RTU; a connection device (TAC) for installing the SCADA system on related software program; a gel encapsulation layer (GEL), the method comprising the steps of: (1) communicating a command from the enterprise server to said RTU via the AES to configure said RTU; (2) permitting said RTU to receive data input and to store said data; and (3) transmitting said data back from the RTU to the enterprise server.